

APPLICANT(S): Adrian PAZ  
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Page - 2 -

Amendments to the Claims

Claims 1-28 (Cancelled)

29. (currently amended) A surgery-assisting ~~anchoring retraction~~ device (SARD) for use in minimally invasive surgeries within a cavity of the human body, comprising at least one first anchoring means and at least one second anchoring means, ~~wherein said first anchoring means is adapted for attaching said surgical instrument holding device~~SARD to an internal surface within said cavity and said second anchoring means is adapted for attaching ~~at least one surgical instrument to said surgical instrument holding device~~SARD to an organ within said cavity; ~~further wherein said surgery-assisting anchoring device~~SARD is configured for being ~~entirely introduced inserted~~ entirely into said cavity; ~~further wherein said SARD, when activated, internally retracts said organ with respect to said internal surface such that no constant external retraction forces applied from the outside of the body is~~are needed to retract said organ.
30. (currently amended) The ~~surgery-assisting anchoring device~~SARD according to claim 29, wherein ~~said first anchoring means comprises minimally invasive means for attaching to the internal surface of a cavity or to various organs within said cavity,~~ said first anchoring means or said second anchoring means are selected from a group consisting of vacuum means, magnetic means situated on ~~either~~ interior, exterior or both surfaces of said cavity; mechanical means, adhesive means or any combination thereof.
31. (currently amended) The ~~surgery-assisting anchoring device~~SARD according to claim 29, further comprising means allowing said ~~holding~~

~~device~~SARD to be moved from one position to another and to be reattached to the undersurface of said cavity, or to various tissues within said cavity, without creating any additional significant openings in the cavity wall.

32. (currently amended) The ~~surgery-assisting anchoring device~~SARD according to claim 29, wherein said first anchoring means and said second anchoring means are further including comprising means for attaching a plurality of ~~said anchoring attachment~~ means, selected from vacuum cups, magnetic means, mechanical means, adhesive means or any combination ~~thereof thereof~~, wherein said plurality of said ~~anchoring attachment~~ means are adapted to homogeneously distribute ~~allows for holding a larger weight or for distributing mechanical -load~~ between said plurality of said ~~anchoring attachment~~ means.
33. (cancelled)
34. (cancelled)
35. (cancelled)
36. (currently amended) The ~~surgery-assisting anchoring device~~SARD according to claim 34, additionally comprising an electronically-controlled vacuum pump comprising;
- a. at least one vacuum generating means;
  - b. a vacuum controller for controlling the level of vacuum required;
  - c. at least one timer for activating a vacuum pump for a predefined time interval when receiving a trigger input; and,
  - d. at least one indicator means selected from a group consisting of light, ~~and/or~~ buzzer, for indicating that said vacuum is about to end.

APPLICANT(S): Adrian PAZ  
SERIAL NO.: 10/563,229  
FILED: January 3, 2006  
Page - 4 -

37. (currently amended) The SARD according to claim 29, additionally~~An anchoring system for surgery within a cavity of the human body, comprising;~~

~~a. at least one surgery-assisting anchoring device for use in minimally invasive surgeries within a cavity of the human body, comprising at least one first anchoring means and at least one second anchoring means, wherein said first anchoring means is adapted for attaching said surgical instrument holding device to an internal surface within said cavity and said second anchoring means is adapted for attaching at least one surgical instrument to said surgical instrument holding device within said cavity; further wherein said surgery-assisting anchoring device is configured for being introduced entirely into said cavity;~~

~~b. at least one surgical instrument or device releasably attached to said second anchoring means of said surgical instrument holding device;~~

~~e. a. controlling means releasably attached to said SARD, adapted to (i) introduce said SARD into said cavity; (ii) to extract said SARD surgical instrument holding device or said surgical instrument such that said controlling means may be used to install said surgical instrument holding or said surgical instrument within said cavity, to remove said surgical instrument holding or said surgical instrument from said cavity[[,]] ; and, (iii) to relocate said SARD surgical instrument holding device within said cavity; said controlling means [[bein]] being at least partially operated by the operator from outside said body.~~

38-40. (cancelled)

41. (Withdrawn) A method of performing surgery within a cavity of the human body by;

- a. obtaining an anchoring device for use in surgery within said cavity, said anchoring device comprising connected first and second attaching means, said first attaching means for attaching the device to an internal surface within a cavity of the human body and said second attaching means for attaching to surgical instruments or devices within said cavity;
- b. introducing, into said cavity said anchoring device;
- c. attaching said first attaching means to an internal surface within said cavity; and
- d. attaching surgical instruments to said second attaching means, such that the surgical apparatus is contained within the cavity of the human body.

42. (Withdrawn) The method of performing surgery within a cavity of the human body, according to claim 38, comprising;

- a. providing at least one anchoring device comprising connected first and second attaching means;
- b. providing at least one controlling means;
- c. creating an access incision from the outside of the human body to provide access to an inaccessible cavity or using a natural opening to provide access to an accessible cavity;
- d. using the controlling means to introduce at least one said anchoring device through the access opening into the cavity;
- e. attaching said anchoring device to an internal wall of said cavity or to some other internal organ using its first attaching means;

- f. using the controlling means to introduce at least one surgical instrument, for example a grasping instrument to be attached to an internal organ, through the access opening into the cavity;
- g. attaching said surgical instrument to said anchoring device using its second attaching means; and
- h. removing the controlling means from the cavity and leaving the access opening free for other use during the surgery;
- i. controlling the surgical equipment installed within the cavity to perform the surgery; and
- j. using a controlling means to remove said surgical instruments from the cavity;

thereby installing surgical apparatus into and removing it from the cavity whilst leaving the access incision unimpeded during surgery.

43. (Withdrawn) The method of performing surgery within a cavity of the human body, according to claim 38, additionally comprising;
- a. attaching at least one forcing means to the abdominal wall by some attachment means such as vacuum cups, magnetic means, mechanical means, adhesive means, fixation wires or any combination thereof; and
  - b. forcing the abdominal wall upwards,
- thus constructing a contained frame within the cavity used for lifting the abdominal wall during surgery.
44. (New) The surgery-assisting anchoring device according to claim 29, wherein SARD is activated by an introducer.
45. (New) The surgery-assisting anchoring device according to claim 29, wherein SARD is introduced and extracted into and out of said cavity by an introducer.

46. (New) The surgery-assisting anchoring device according to claim 29, wherein SARD is manipulated and relocated within said cavity by an introducer.
47. (New) A method for internally retracting an organ within a cavity of the human body, during minimally invasive surgeries, said method comprising steps of
- a. obtaining a surgery-assisting retraction device (SARD), comprising
    - i. at least one first anchoring means and at least one second anchoring means;
  - b. entirely inserting said SARD into said cavity by means of an introducer;
  - c. attaching said first anchoring means of said SARD to an internal surface within said cavity;
  - d. attaching said second anchoring means of said SARD to an organ within said cavity, thereby internally retracting said organ with respect to said internal surface without requiring external forces to be applied from the outside of the body.
48. (New) The method according to claim 45, additionally comprising step of selecting said first anchoring means and said second anchoring means from a group consisting of vacuum means, magnetic means situated on interior, exterior or both surfaces of said cavity; mechanical means, adhesive means or any combination thereof.